WEST Search History

DATE: Friday, December 06, 2002

Set Name side by side	Query	Hit Count	Set Name result set
	DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR		
L4	L2 and (surfactant or emulsifier) same(peg adj2 fatty adj acid adj ester or castor adj oil or monoglycerides or glycerol adj fatty adj acid adj ester)	7	L4
L3	L2 (peg adj2 fatty adj acid adj ester or castor adj oil or monoglycerides or glycerol adj fatty adj acid adj ester)	43898	L3
L2	cyclodextrin adj5 (uncomplexed or unconjugated or non-complexed or non-conjugated)	95	L2
L1	cyclodextrin same (uncomplexed or unconjugated or non-complexed or non-conjugated)	247	L1

END OF SEARCH HISTORY

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=> d his full

     (FILE 'HOME' ENTERED AT 16:09:55 ON 06 DEC 2002)

     FILE 'CAPLUS' ENTERED AT 16:10:05 ON 06 DEC 2002
L1          289 SEA ABB=ON  PLU=ON  CYCLODEXTRIN (3A) (UNCOMPLEXED OR UNCONJUGA
                TED OR FREE OR NON-COMPLEXED OR NON-CONJUGATED OR FUNCTIONAL
                OR UNBOUND)
L2           34 SEA ABB=ON  PLU=ON  L1 AND (SURFACTANT OR EMULSIFIER OR
                SOLUBILIZER OR SOLUBILIZING)
L3            0 SEA ABB=ON  PLU=ON  L2 AND BUFFER? (P) (CITRATE OR CITRIC)
L4            4 SEA ABB=ON  PLU=ON  L2 AND  (CITRATE OR CITRIC)
                D L4 IBNIB KWCI 1-
                D L4 IBIB KWIC 1-


     FILE HOME

     FILE CAPLUS

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     FILE COVERS 1907 - 6 Dec 2002  VOL 137 ISS 24
     FILE LAST UPDATED: 5 Dec 2002  (20021205/ED)

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       substance identification.

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     information on CAS roles, enter HELP ROLES at an arrow prompt or use
     the CAS Roles thesaurus (/RL field) in this file.

=> s cyclodextrin (p) complexation
         22084 CYCLODEXTRIN
          7336 CYCLODEXTRINS
         22676 CYCLODEXTRIN
                 (CYCLODEXTRIN OR CYCLODEXTRINS)
         62278 COMPLEXATION
           293 COMPLEXATIONS
         62376 COMPLEXATION
                 (COMPLEXATION OR COMPLEXATIONS)
L5        2736 CYCLODE
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=> d his full

     (FILE 'HOME' ENTERED AT 16:09:55 ON 06 DEC 2002)

     FILE 'CAPLUS' ENTERED AT 16:10:05 ON 06 DEC 2002
L1          289 SEA ABB=ON  PLU=ON  CYCLODEXTRIN (3A) (UNCOMPLEXED OR UNCONJUGA
                TED OR FREE OR NON-COMPLEXED OR NON-CONJUGATED OR FUNCTIONAL
                OR UNBOUND)
L2           34 SEA ABB=ON  PLU=ON  L1 AND (SURFACTANT OR EMULSIFIER OR
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L3            0 SEA ABB=ON  PLU=ON  L2 AND BUFFER? (P) (CITRATE OR CITRIC)
L4            4 SEA ABB=ON  PLU=ON  L2 AND  (CITRATE OR CITRIC)
                D L4 IBNIB KWCI 1-
                D L4 IBIB KWIC 1-


     FILE HOME

     FILE CAPLUS

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         22084 CYCLODEXTRIN
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L5        2736 CYCLODE
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L2 34 SEA ABB=ON PLU=ON L1 AND (SURFACTANT OR EMULSIFIER OR SOLUBILIZER OR SOLUBILIZING)

L3 0 SEA ABB=ON PLU=ON L2 AND BUFFER? (P) (CITRATE OR CITRIC)

L4 4 SEA ABB=ON PLU=ON L2 AND (CITRATE OR CITRIC)

D L4 IBNIB KWCI 1-

D L4 IBIB KWIC 1-

L5 2736 SEA ABB=ON PLU=ON CYCLODEXTRIN (P) COMPLEXATION

L6 8729 SEA ABB=ON PLU=ON CYCLODEXTRIN (P) COMPLEX?

L7 6633 SEA ABB=ON PLU=ON CYCLODEXTRIN (5A) COMPLEX?

L8 208 SEA ABB=ON PLU=ON L7 (P) (SURFACTANT OR EMULSIFIER OR SOLUBILIZER)

L9 0 SEA ABB=ON PLU=ON L7 (P) (SURFACTANT OR EMULSIFIER OR SOLUBILIZER) (P) (COMPATIBLE OR NON-COMPATIBLE OR IN-COMPATIBLE OR UNCOMPATIBEL)

L10 0 SEA ABB=ON PLU=ON L7 (P) (SURFACTANT OR EMULSIFIER OR SOLUBILIZER) (P) (COMPATIBLE OR NON-COMPATIBLE OR IN-COMPATIBLE OR UNCOMPATIBLE)

L11 17 SEA ABB=ON PLU=ON L7 (P) (SURFACTANT OR EMULSIFIER OR SOLUBILIZER) (P) (SDS OR SODIUM DODECYL SULFATE OR DODECANOLPOLYETHOXYLATE)

D L11 IBIB KWIC 1-

D L2 IBIB KWIC 1-

OR MALODOR OR SMELL) (P) (SURFACTANT OR EMULSIFIER OR DETERGENT
)

L3 32 SEA ABB=ON PLU=ON (CYCLODEXTRIN INCLUSION COMPLEX) (P)
(SURFACTANT OR EMULSIFIER OR DETERGENT)

L4 0 SEA ABB=ON PLU=ON L3 AND (ALKYL ETHER SULFATE OR TRIETHYLENE GLYCOL ETHER SULFATE OR TALLOW ALKYL HEXAOETHYLENE SULFATE OR AMINOETHANESULFONIC ACID OR N-ACYL-N-METHYL TAURATE OR OLEFIN SULFONATE OR LAURETH SULFATE)

L5 56 SEA ABB=ON PLU=ON (CYCLODEXTRIN COMPLEX) (P) (SURFACTANT OR EMULSIFIER OR DETERGENT)

L6 0 SEA ABB=ON PLU=ON L5 AND (ALKYL ETHER SULFATE OR TRIETHYLENE GLYCOL ETHER SULFATE OR TALLOW ALKYL HEXAOETHYLENE SULFATE OR AMINOETHANESULFONIC ACID OR N-ACYL-N-METHYL TAURATE OR OLEFIN SULFONATE OR LAURETH SULFATE)

L7 1 SEA ABB=ON PLU=ON L5 AND (N-LAUROYL-N-METHYL-TAURATE OR SODIUM DODECYL BENZOYL SULFONATE OR LAUROYL SULFATE OR BETAINE OR SULTAINE OR HYDROXYSULTAINE OR VELVETEX OR LONZAINE OR MIRATAINE OR MONAQUAT)

D L7 IBIB KWIC

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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

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FILE LAST UPDATED: 5 Dec 2002 (20021205/ED)

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=> s cyclodextrin (3a) (uncomplexed or unconjugated or free or non-complexed or non-conjugated or functional or unbound)

22084	CYCLODEXTRIN
7336	CYCLODEXTRINS
22676	CYCLODEXTRIN (CYCLODEXTRIN OR CYCLODEXTRINS)
3087	UNCOMPLEXED
5764	UNCONJUGATED
1076893	FREE
535	FREES
1077340	FREE (FREE OR FREES)
567661	NON
30	NONS
567685	NON (NON OR NONS)
27359	COMPLEXED
146	NON-COMPLEXED (NON(W)COMPLEXED)
567661	NON
30	NONS

L11 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1993:547111 CAPLUS
DOCUMENT NUMBER: 119:147111
TITLE: A surface tension method for determining binding constants for cyclodextrin inclusion complexes of ionic surfactants
AUTHOR(S): Dharmawardana, Udeni R.; Christian, Sherril D.; Tucker, Edwin E.; Taylor, Richard W.; Scamehorn, John F.
CORPORATE SOURCE: Inst. Appl. Surfactant Res., Univ. Oklahoma, Norman, OK, 73019, USA
SOURCE: Langmuir (1993), 9(9), 2258-63
CODEN: LANGD5; ISSN: 0743-7463
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A new method was developed for detg. binding consts. of **complexes** of **cyclodextrins** with surface-active compds., including water-sol. ionic **surfactants**. The technique requires measuring the change in surface tension caused by addn. of a cyclodextrin (CD) to aq. solns. of the **surfactant**; the exptl. results lead directly to inferred values of the thermodn. activity of the **surfactant**. Surface tension results are reported for three different **surfactants** (**SDS**, cetylpyridinium chloride (CPC), and CTAB) in the presence and in the absence of added .beta.-CD. Data for CPC are obtained at **surfactant** concns. below and above the crit. micelle concn. Correlations between surface tension and **surfactant** activity are expressed by the Szyszkowski equation, which subsumes the Langmuir adsorption model and the Gibbs equation. The surface tension increases monotonically as .beta.-cyclodextrin is added to ionic **surfactant** solns. At concns. of CD well in excess of the **surfactant** concn., the surface tension approaches that of pure water, indicating that neither the **surfactant**-CD complexes nor CD itself are surface active. Binding consts. are inferred from a model that incorporates the parameters of the Szyszkowski equation and mass action consts. relating to the formation of micelles from monomers of the **surfactant** and the counterion. Evidence is given that two mols. of CD can complex the C-16 hydrocarbon chain of the cetyl **surfactants**.

ST **cyclodextrin** inclusion **complex surfactant** surface tension; **SDS** inclusion compd cyclodextrin; CTAB inclusion compd cyclodextrin; cetylpyridinium chloride inclusion compd cyclodextrin

L11 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1992:470164 CAPLUS
DOCUMENT NUMBER: 117:70164
TITLE: Calorimetric investigation of the complex formation between surfactants and .alpha.-, .beta.- and .gamma.-cyclodextrins
AUTHOR(S): Turco Liveri, V.; Cavallaro, G.; Giammona, G.; Pitarresi, G.; Puglisi, G.; Ventura, C.
CORPORATE SOURCE: Dip. Chim. Fis., Univ. Palermo, Palermo, 90123, Italy
SOURCE: Thermochimica Acta (1992), 199, 125-32
CODEN: THACAS; ISSN: 0040-6031
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A calorimetric technique has been used to study complex formation between .alpha.-, .beta.-, and .gamma.-cyclodextrins (.alpha.CD, .beta.CD, and .gamma.CD) and some **surfactants** (sodium dodecylsulfate (**SDS**), hexadecyl trimethylammonium bromide (CTAB) and p-(1,1,3,3-tetramethylbutyl)phenoxypoly(oxyethyleneglycol) (Triton X-100)). The exptl. data indicate that some complexes (**SDS**-.alpha.CD, **SDS**-.beta.CD and CTAB-.alpha.CD) are very stable and allow direct detn. of their stoichiometry and molar enthalpy of complex formation. Those for other complexes closely fit a model based on an equil. reaction between **surfactant**, **cyclodextrin** and a single **complex**. According to the model, data anal. allows detn. of the stoichiometry, stability const. and molar enthalpy of their complex formation. The thermodn. parameters indicate that stoichiometry and complex stability are strongly influenced by entropic contributions.

L11 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2002 ACS
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